

## **SYSTEMS AND METHODS FOR USING SELECTABLE FRAME DURATIONS IN A WIRELESS COMMUNICATION SYSTEM**

### **ABSTRACT OF THE DISCLOSURE**

Systems and methods for setting parameters for transmissions of data from a mobile station to a base station in a wireless communications system. One embodiment comprises a method including a network detecting a mobile station entering or leaving soft handoff and responsively modifying a transmission parameter. The transmission parameter may comprise frame duration, wherein if the mobile station enters soft handoff, the frame duration is set to a larger value and if the mobile station leaves soft handoff, the frame duration is set to a smaller value. The network may determine whether the mobile station should enter or leave soft handoff based upon PSMMs and may send handoff direction messages (HDMs) to the mobile station, thereby causing the mobile station to enter or leave soft handoff and to set the transmission parameter accordingly.